

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/774,240 02/06/2004		Richard E. Waitkus JR.	016093.0118	9102	
23640 7	7590 09/16/2005 EXAMINER				
BAKER BOTTS, LLP			LAU, TUNG S		
910 LOUISIA HOUSTON, T	NA °X 77002-4995		ART UNIT	PAPER NUMBER	
			2863		

DATE MAILED: 09/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Ý
Ж

	Application No.	Applicant(s)	
	10/774,240	WAITKUS, RICHARD E.	
Office Action Summary	Examiner	Art Unit	
	Tung S. Lau	2863	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DY. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timularly and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. ely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 25 A	ugust 2005.		
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1 and 3-32 is/are pending in the applied 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1.3-11 and 13-32 is/are rejected. 7) Claim(s) 12 is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	· .	
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application tity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>See office action</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Information Disclosure Statement

1. Information Disclosure Statement filed on 08/25/2005 is acknowledged by the examiner; A copy of a signed PTO-1449 attached with this office action.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

 A person shall be entitled to a patent unless
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-11, 13-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Little et al. (U.S. Patent 6,123,017).

Regarding claim 1:

Little discloses a material management system including: one or more waste containers adapted to receive and compact waste (abstract); a fullness-measuring subsystem for determining the fullness of one or more waste containers (fig. 1, unit 24, fig. 15); a computerized scheduling subsystem in communication with the fullness-measuring subsystem for automatically determining an optimal time to empty each waste container(fig. 1, unit 24), based the fullnesses of the waste container (fig. 15) and scheduling factors (Col. 2-3, Lines 40-9) including customer preferences (Col. 1-2, Lines 40-9) and waste hauler limitations (fig. 15).

Regarding claim 15:

Little discloses a computerized method for scheduling a pick up time to remove of one or more waste containers, including, for each waste container (abstract), automatically determining a fullness of the waste container (fig. 15); automatically determining when a waste container will a target level of fullness, based on the current fullness and predicted future usage (fig. 15); automatically determining an optimal time to remove the waste container (Col. 1-2, Lines 40-9), based on when the waste container will reach the target level of fullness (fig. 15), customer preferences (Col. 1-2, Lines 40-9), and waste hauler limitations (fig. 15); and automatically scheduling the removal of the waste container for the optimal time (Col. 1-2, Lines 40-9, Col. 2-3, Lines 40-9).

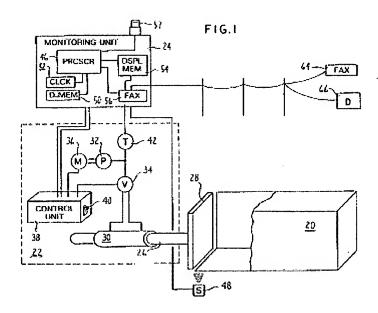
F1G.15

	S	М	Т	W	Th	F	Sa
DAILY USES	.3	8	16	11	20	9	4
	5	8	13	15	14	8	4
	7	9	15	8	18	12	7
	4	8	14	11	13	10	4
EXPECTE USE	5 5	8	15	12	16	10	5

Art Unit: 2863

Regarding claim 24:

Little discloses a computer program, stored on a tangible storage medium, for use in scheduling a pick up time to remove one or more waste containers, the computer program including executable indications that cause a computer to (fig. 1, unit 24, Col. 3-4, Lines 10-3), for each waste container (fig. 15); determine a fullness of the waste container; determine when the waste container will reach a target level of fullness (fig. 15), based on the current fullness and predicted future usage (Col. 3-4, Lines 10-3, fig. 15); determine an optimal time to remove the waste container (Col. 1-2, Lines 40-9), based on when the waste container will reach the target level of fullness (fig. 15), customer preferences (Col. 1-2, Lines 40-9), and waste hauler limitations (fig. 15); and schedule the removal of the waste container for the optimal time (Col. 1-2, Lines 40-9, Col. 2-3, Lines 40-9).



Regarding claim 3, Little discloses including the optimal time is the latest time that satisfies customer preferences and waste hauler limitations (Col. 1-2, Lines

Page 5

Art Unit: 2863

40-54); Regarding claim 4, Little discloses a preference that the customer's waste container only reach a certain level of fullness (fig. 15); Regarding claim 5, Little discloses a number of drivers available at a specified time (fig. 3, unit 89); Regarding claim 6, Little discloses if no time satisfies customer preferences and waste hauler limitations, the computerized scheduling system will choose an optimal time that satisfies one or more customer preferences (Col. 1-2, Lines 40-54); Regarding claim 7, Little discloses if no time satisfies customer preferences and waste hauler limitations, the computerized scheduling system will choose an optimal time that satisfies one or more waste hauler limitation (Col. 1-2, Lines 40-9); Regarding claim 8, Little discloses including a communication subsystem in communication with the computerized scheduling subsystem for notifying the waste hauler when to remove the waste container (fig. 1, unit 24, Col. 1-2, Lines 40-9, Col. 3-4, Lines 37-3); Regarding claims 9, 22, Little discloses subject to user intervention (Col. 1-2, Lines 40-9); Regarding claims 10, 23, Little discloses user-intervention includes a user determining when to schedule the removal of a waste container (Col. 1-2, Lines 40-9); Regarding claim 11, Little discloses the predicted future usage is based on statistical analysis, performed by the computerized scheduling sub-system, of customer usage patterns including prior recorded fullnesses (fig. 15, Col. 3-4, Lines 10-4); Regarding claim 13, Little discloses causes the fullness-measuring subsystem to determine again the fullness of the waste container and the optimal pickup time, a lead time before scheduling the waste container removal; and if

Art Unit: 2863

the optimal removal time has changed, determining again when to accomplish the scheduling of the waste container removal (Col. 1-2, Lines 40-9); Regarding claim 14, Little discloses determines when to accomplish the scheduling of the waste container removal, based on the optimal time and one or more waste hauler limitations (Col. 1-2, Lines 40-32).

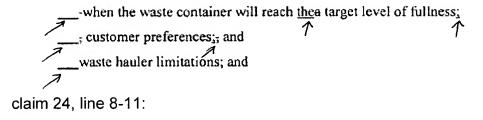
Regarding claims 16, 25, Little discloses percentage of the fullness (Col. 10, Lines 46-65); Regarding claim 17, Little discloses percentage of the fullness is about 100% (Col. 10, Lines 46-65, fig. 15); Regarding claims 18, 26, Little discloses automatically determining when to accomplish the scheduling of the waste container removal, based on the optimal time and one or more waste hauler limitations (Col. 1-2, Lines 40-32); Regarding claim 19, Little discloses latest time to accomplish the scheduling (Col. 1-2, Lines 40-32); Regarding claims 20, 27, Little discloses automatically determining again the fullness of the waste container and the optimal pickup time, a lead time before scheduling the waste container removal, and if the optimal removal time has changed, determining again when to accomplish the scheduling of the waste container removal (Col. 1-2, Lines 40-32); Regarding claim 21, Little discloses including customer usage pattern (fig. 15); Regarding claim 28, Little discloses when determining the waste container will reach the target level of fullness (Col. 9-10, Lines 29-51); Regarding claim 29, Little discloses a preference that the customer's waste container only reach a certain level of fullness (fig. 15, Col. 9-10, Lines 15-45); Regarding claims 30, 32, Little discloses operating hours of

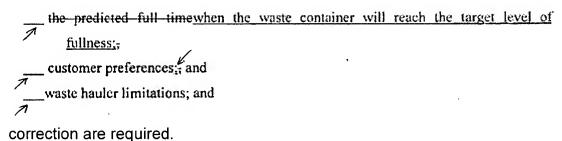
Art Unit: 2863

waste hauler's dispatcher office (Col. 11, Lines 30-65); Regarding claim 31, Little discloses preference emptied certain day of the week (Col. 11, Lines 30-65).

Claim Objections

- Claim 15 status identifier indicated that no changed was indicated, but it is currently amended, see MPEP 37 CFR 1.121.
- 4. Claims 15 and 24 are objected as having typographical error: claim 15 lines 7-9:





Allowable Subject Matter

5. Claim 12 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all the limitation of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: prior art fail to teach linear regression patterns.

Art Unit: 2863

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

6. Applicant's arguments with respect to the amended claims have been considered but are moot in view of the new ground(s) of rejection. However, applicant's arguments filed 08/25/2005 have been fully considered but they are not persuasive.

A. Applicant argues that the prior art does not show the 'determining an optimal time to empty waste container based on fullness of the waste container and scheduling factor including customer preference and waste hauler limitation'.

Little discloses 'determining an optimal time to empty waste container based on fullness of the waste container and scheduling factor including customer preference and waste hauler limitation' in Col. 1-2, Lines 40-32, Col. 11-12, Lines 30-65, fig. 15).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2863

Page 9

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL

BRYAN BUI PRIMARY EXAMINER Page 10

Bohn